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PROJECT CONSULTANT

PROJECT MANAGEMENT CONSULTANT REPORT

Project Name: -Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06

Client:- Executive Engineer, project division yelahanka zone, BBMP

Contractor / Agency:- Sri.PuttaSwamyGowda

Date of Inspection:-21-06-2022

Inspected by: Assistant Engineer, Consultants, Executive Engineer, BBMP,Banglore

Sl.No	Description	Unit	Qty	Comments / Observation
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-143), 10km lead	Cum	589.50	Work done up to the billed quantity and quality is satisfactory
9	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification	Cum	290.96	Work done up to the billed quantity and quality is satisfactory

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16	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6), issue rate dated 03-01-2020	Cum	48.69	Work done up to the billed quantity and quality is satisfactory
17	Providing and laying bituminous concrete **40mm** thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12), issue rate dated 03-01-2020	Cum	2197.61	Work done up to the billed quantity and quality is satisfactory
18	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)	Sqm	2398.11	Work done up to the billed quantity and quality is satisfactory

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4	wet mix macadam	Cum	1449.58	Compressive Strength (Core Test) Test as per [IS:516-1959 RA1999], SP-24:1983
5	Soil Sub Grade	Cum	290.96	Density of sub Grade /Soil
6	Primer Coat	Sqm	42278.37	Determination test and Spread test
7	Tack coat	Sqm	15016.96	Determination test and Spread test
8	Dence Graded Bituminous macadam	Cum	48.69	i) Bituminous extraction ii)Gradation & sieve analysis
9	Bituminous concrete	Cum	2197.61	i) Bituminous extraction ii)Gradation & sieve analysis

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TEST REPORT

Tests on Cement

[IS:4031 – Part 1 to 5]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	SRI.PUTTA SWAMY GOWDA	**Date:**	16/04/2022
Sample Supplied by:	Agency / Contractor		

The test results conducted on the cement sample are as follows:

Sl No	Description	Test Method as per IS Standards	Test Result	Standard Requirements	Remarks
1	Fineness of Cement	IS 4031 (Part-1)	3.1%	Obtained Test Results Should Be Less Than 10%	OPC
2	Initial Setting Time	IS 4031 (Part-5)	126Minutes	Obtained Test Results Should not be less than 30 minutes	
3	Final Setting Time	IS 4031 (Part-5)	343Minutes	Obtained Test Results Should not be more than 600 minutes	
4	Soundness	IS 4031 (Part-3) by Le-Chatelier method	3.3 mm	Not more than 10mm	
5	Standard Consistency	IS-4031 (Part-4)	28%	Obtained Test results Should be 20% to 30%	

Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.

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PROJECT CONSULTANT

Ref.No:MC

Gradation Test on Fine Aggregate

[IS:383-2016]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 02**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	**Date**	16/04/2022
Sample Supplied by:	Agency / Contractor		
Material Tested:	Fine Aggregate	**Total weight taken:**	1500 gms

The test results conducted on the fine aggregate sample are as follows:

IS. Sieve size (mm)	Wt. retained (g)	Cumulative wt. retained (g)	% Cumulative wt. retained	% Cumulative wt. passing	Specification as IS 383-2016
10	0	0	0	100	100
4.75	75	75	5.00	95.00	90 to 100
2.36	134	209	13.93	86.07	75 to 100
1.18	324	533	35.53	64.47	55 to 90
600 Micron	350	883	58.87	41.13	35 to 59
300 Micron	329	1212	80.80	19.20	8 to 30
150 Micron	267	1479	98.60	1.40	0 to 10
Pan	21	1500	100	0.00	0

Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.

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PROJECT CONSULTANT

Ref.No:MC

Specific Gravity of Fine Aggregates

IS:2386(PART3):1963(RA 2016)

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 03**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	**Date:**	18/04/2022
Sample Supplied by:	Agency / Contractor		
Material Tested:	Fine Aggregate		

The test results conducted on the fine aggregate sample are as follows:

Sl no	Description	Sample weight	Test Method As Per IS 2386(Part 3):1963(RA 2016)
1	Weight of Saturated dry sample (C),gm	500	Standard Requirements (2 to 4)
2	Weight of Pycnometer +Saturated dry sample + Water (A),gm	1853	
3	Weight of Pycnometer +Water (B),gm	1526	
4	Weight of Oven Dry Sample (D), gm	486	
I	**Specific Gravity ,G**	**2.81**	
II	**Apparent Specific Gravity**	**3.06**	
III	**Water Absorption**	**2.88%**	**Standard Requirements (0.1% to 5%)**

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PROJECT CONSULTANT

Ref. No.:MC

Gradation Test on Coarse Aggregate

[IS:383-2016]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No.: 04	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	Date:	20/04/2022
Sample Supplied by:	Agency / Contractor		
Material Tested:	40mm Coarse Aggregate	Total weight taken:	15000 gms

The test results conducted on the coarse aggregate sample are as follows:

IS. Sieve size (mm)	Wt. retained (g)	Cumulative wt. retained (g)	% Cumulative wt. retained	% Cumulative wt. passing	Specification as IS 383-2016
80	0	0	0	100	100
40	339	339	2.26	97.74	95 to 100
20	8560	8899	59.33	40.67	30 to 70
10mm	3422	12321	82.14	17.86	10 to 35
4.75	2158	14479	96.53	3.47	0 to 5
Pan	521	15000	100.00	0.00	-
Total	15000				-

Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.

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Tests on Aggregate
[IS:2386:1963(RA 2016)]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 05**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	**Date:**	20/04/2022
Sample Supplied by:	Agency / Contractor		

Thetestresults conducted on the aggregate sample are as follows:

No.	Description	Test Method as per IS Standards	Test Result	Standard Requirements	Remarks
1	Flakiness index	IS 2386 (Part-1):1963(RA 2016)	19.40	Obtained Test Results Should Be 1% to 30%	
2	Elongation index	IS 2386(Part 1) :1963 (RA 2016)	9.89	Obtained Test Results Should be 1% to 30 %	
3	Specific Gravity	IS 2386 (Part 3): 1963 (RA 2016)	2.45	Obtained Test Results Should be 2 to 4	
4	Water Absorption	IS 2386 (Part-3) :1963 (RA 2016)	2.9%	Obtained Test Results should be 1% to 5%	
5	Aggregates Impact Value	IS 2386 (Part -4) :1963 (RA 2016)	39%	Obtained Test Results should be 1% to 60%	
Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.					

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Tests onSoil Sample

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.	**Date:**	26/04/2022
Contractor:	Sri.PuttaSwamyGowda		
Sample Supplied by:	Agency / Contractor		
Sample identification :	Sub-Grade Soil.		

Thetestresults conducted on theSoilsample are as follows:

No.	Seive Analysis (% Passing)			Compaction test (IS Heavy)		CBR (%) (4 Days Soaked)	Remarks
	Test method IS 2720 (Part4):1985 (RA 2015)			Test Method IS 2720-(part8):1988(RA 2016)		**Test Method as per IS 2720-Part 16-1979**	
	Gravel (%) > 4.75mm	Sand (%) 4.75 to 0.075mm	Silt and Clay(%)< 0.075	MDD (g/cc)	OMC(%)	56 blows	
1	11.4	62.6	26.6	1.88	8.3	9.5%	Satisfied Requirement

Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.

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Field Density test for Soilsample are as follows:

Tests on Sub Grade

TEST REPORT ON FIELD DENSITY OF EMBACKMENT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 02**	
Client:	Executive Engineer, project division, yelahanka zone.	**Date:**	26/04/2022
Contractor:	Sri.PuttaSwamyGowda		
Sample :	At site		
Sample identification :	Sub-Grade Soil.		

Lab OMC(%): 8.3

LabMDD(gm/cc): 1.88

Mean weight of sand in cone(w2)	396
Volume of calibrating cylinder(V)	1176
Weight of Sand+cylinder (before pouring into the calibrating container)(W1)	6522
Mean Weight of sand+cylinder(after Pouring into the calibrating container)(w3)	4458
Weight of sand to fill calibrating container(wa=w1-w2-w3)	1668
Bulk density of sand(Ys=Wa/V)	1.42

Sl.no	Description	1	2	3
1	Chainage (m)	60 lhs	80rhs	70C
2	Weight of wet soil/GSB/WMM from hole w gm	2486	2311	2291
3	Weight of cylinder+sand before pouring(w1)	6510	6284	6394
4	Weight of cylinder+sand after pouring(w2)	4354	4268	4390
5	Weight of sand in conical portion(wc)	395	395	395

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6	Weight of sand /gsb/wmm in hole(Wh=W1-W2-Wc)	1761	1621	1609
7	volume of pit (V=Wh/Density of sand)	1246.52	1147.42	1138.93
8	Bulk density=(W/V)	1.99	2.01	2.01
9	Rapid moisture meter reading= M	9	8	8.4
10	Field moisture content MFC(%) by RMM reading	0.09	0.08	0.084
11	Field dry density FDD(g/cc)	1.83	1.86	1.86
12	Degree of compaction (%)	97.32	99.20	98.18

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PROJECT CONSULTANT

Ref. No.: MC

Gradation of Wet Mix Macadam

[MORT&H V Revision]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No.: 01	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	Date:	12/05/2022
Sample Supplied by:	Agency / Contractor		
Material :	Wet Mix Macadam (WMM)	Total weight taken:	10 kg

Gradation Test for WMM Sample:

Sl no	Sieve Size (mm)	Wt retained (gm)	Cummulativewt retained (gm)	% Cummulativewt retained	% Fines passing	Desired Gradation as per MoRTH Specification
1	53	0	0	0	100	100
2	45	25	25	0.25	99.75	95-100
3	22.4	3210	3235	32.35	67.65	60-80
4	11.2	2570	5805	58.05	41.95	40-60
5	4.75	1296	7101	71.01	28.99	25-40
6	2.36	1040	8141	81.41	18.59	15-30
7	0.6	496	8637	86.37	13.63	8-22.
8	0.075	918	9555	95.55	4.45	0-8

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Ref. No.: MC

Gradation of Wet Mix Macadam

[MORT&H V Revision]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No.: 02	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	Date:	12/05/2022
Sample Supplied by:	Agency / Contractor		
Material :	Wet Mix Macadam (WMM)	Total weight taken:	10 kg

Gradation Test for WMM Sample:

Sl no	Sieve Size (mm)	Wt retained (gm)	Cummulativewt retained (gm)	% Cummulativewt retained	% Fines passing	Desired Gradation as per MoRTH Specification
1	53	0	0	0	100	100
2	45	52	52	0.52	99.48	95-100
3	22.4	3670	3722	37.22	62.78	60-80
4	11.2	2095	5817	58.17	41.83	40-60
5	4.75	668	6485	64.85	35.15	25-40
6	2.36	1665	8150	81.5	18.5	15-30
7	0.6	820	8970	89.7	10.3	8-22.
8	0.075	725	9695	96.95	3.05	0-8

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Ref. No.: MC

Gradation of Wet Mix Macadam

[MORT&H V Revision]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No.: 03	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	Date:	12/05/2022
Sample Supplied by:	Agency / Contractor		
Material :	Wet Mix Macadam (WMM)	Total weight taken:	10 kg

Gradation Test for WMM Sample:

Sl no	Sieve Size (mm)	Wt retained (gm)	Cummulativewt retained (gm)	% Cummulativewt retained	% Fines passing	Desired Gradation as per MoRTH Specification
1	53	0	0	0	100	100
2	45	97	97	0.97	99.03	95-100
3	22.4	3170	3267	32.67	67.33	60-80
4	11.2	1832	5099	50.99	49.01	40-60
5	4.75	1625	6724	67.24	32.76	25-40
6	2.36	1235	7959	79.59	20.41	15-30
7	0.6	720	8679	86.79	13.21	8-22.
8	0.075	685	9364	93.64	6.36	0-8

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Ref. No.: MC

TEST REPORT

Tests on Aggregate

[IS:2386:1963(RA 2016)]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 04**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	**Date:**	**12/05/2022**
Sample Supplied by:	Agency / Contractor		
Material:	Wet Mix Macadam (WMM)		

Thetestresults conducted on the aggregate sample for WMM are as follows:

No.	Description	Test Result	Standard Requirements as per Morth V Revision For WMM
1	Flakiness index	20.65	Max Value for WMM for Combined Index Is 30%
2	Elongation index	8.24	

Note:-

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PROJECT CONSULTANT

Ref. No.:MC

TEST REPORT

Aggregates Impact Value

[IS:2386:1963(RA 2016)]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 05**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	**Date:**	**12/05/2022**
Sample Supplied by:	Agency/Contractor		
Material:	Wet Mix Macadam (WMM)		

Thetestresults conducted on the aggregate sample of WMM are as follows:

sl no	Details	Trail No		Average	Standard Requirements as per Morth V Revision For WMM
		1	2		
1	Total weight of aggregate sample filling the cylindrical measure=W1 g	390	388	21.34	Max Value for WMM for Combined Index Is 30%
2	Weight of aggregate passing 2.36 mm sieve after the test = W2 g	82	84		
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	308	304		
4	Aggregate Impact Value= percent fines 100*(W2/W1) %	21.03	21.65		

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DETERMINATION OF PRIME COAT (SPREAD RATE)

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No.: 01	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	SRI.PUTTA SWAMY GOWDA		
Sample Supplied by:	Agency/Contractor	Date:	10/06/2022
Material:	Bituminous Concrete		

The testresults conducted on the bitumen content determination are as follows:

Determination	Unit	Test No	
		1	2
Size of plate (mm)	Mt	0.45 X 0.45	0.45 X 0.45
Area of plate (a)	Sq.m	0.2025	0.2025
IntialWt of empty plate (b)	Kg	1.628	1.63
Final weight of plate after application of prime/tack coat (c)	Kg	1.689	1.683

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Weght of prime / tack coat (d=c-b)	Kg	0.0610	0.0530
Rate of spread of prime /tack coat	Kg/Sq.m	0.301	0.262
Average	Kg/Sq.m	0.281	
Specified limit	**Kg/Sq.m**	**0.25Kg/Sq.m**	

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TEST REPORT

Gradation of Dense Bituminous Macadam
[MORT&H V Revision]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	SRI.PUTTA SWAMY GOWDA		
Sample Supplied by:	Agency / Contractor/Hot mix plant	**Date:**	10/06/2022
Material :	Dense Bituminous Macadam (DBM)		

BITUMEN CONTENT DETERMINATION :

Description	Trail 1	Trail 2
Weight of Mixture before Test , g	500	500
Weight of Mixture after test , g	476	477
Weight of Asphalt and Mineral matter Extracted , g	-	-
Weight of Mineral Matter , g	-	-
Weight of Ash , g		
Weight of Bitumen Extracted, g (corrected)	24	23.00
Bitumen content in %	4.80	4.60
Average	**4.70**	

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GRADIATION AFTER EXTRACTION:

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